

Project Title	Funding	Strategic Plan Objective	Institution
Design & synthesis of novel CNS-active oxytocin and vasopressin receptor ligands	\$560,535	Q4.Other	The Scripps Research Institute
Novel, subtype selective potentiators of nicotinic acetylcholine receptors	\$325,757	Q4.Other	University of Alaska Fairbanks
Evaluation of altered fatty acid metabolism via gas chromatography/mass spectroscopy and time-of-flight secondary ion mass spectroscopy imaging in the propionic acid rat model of autism spectrum disorders	\$25,000	Q4.S.B	University of Western Ontario
Identifying genetic modifiers of rett syndrome in the mouse	\$30,000	Q4.S.B	Baylor College of Medicine
Identifying impairments in synaptic connectivity in mouse models of ASD	\$40,000	Q4.S.B	University of Texas Southwestern Medical Center
A preclinical model for determining the role of AVPR1A in autism spectrum disorders	\$0	Q4.S.B	Mount Sinai School of Medicine
Modeling and pharmacologic treatment of autism spectrum disorders in Drosophila	\$127,500	Q4.S.B	Albert Einstein College of Medicine of Yeshiva University
Mouse genetic model of a dysregulated serotonin transporter variant associated with autism	\$0	Q4.S.B	Vanderbilt University
Neural mechanisms of social cognition and bonding	\$0	Q4.S.B	Emory University
Caspr2 dysfunction in autism spectrum disorders	\$0	Q4.S.B	Yale University
Neuropharmacology of motivation and reinforcement in mouse models of autistic spectrum disorders	\$0	Q4.S.B	University of North Carolina School of Medicine
NrCAM, a candidate susceptibility gene for visual processing deficits in autism	\$0	Q4.S.B	University of North Carolina at Chapel Hill
A novel cell-based assay for autism research and drug discovery	\$60,000	Q4.S.B	University of Arizona
The role of SHANK3 in the etiology of autism spectrum disorder	\$28,000	Q4.S.B	Johns Hopkins University
Shank3 mutant characterization in vivo	\$28,000	Q4.S.B	University of Texas Southwestern Medical Center
The genetics of restricted, repetitive behavior: An inbred mouse model	\$60,000	Q4.S.B	University of Florida
Analysis of cortical circuits related to ASD gene candidates	\$0	Q4.S.B	Cold Spring Harbor Laboratory
Animal models of autism: Pathogenesis and treatment	\$84,999	Q4.S.B	University of Texas Southwestern Medical Center
Deriving neuroprogenitor cells from peripheral blood of individuals with autism	\$0	Q4.S.B	University of Utah
Functional study of synaptic scaffold protein SHANK3 and autism mouse model	\$150,000	Q4.S.B	Duke University
Genomic resources for identifying genes regulating social behavior	\$60,000	Q4.S.B	Emory University
Novel probiotic therapies for autism	\$570,145	Q4.S.B	California Institute of Technology
Novel strategies to manipulate Ube3a expression for the treatment of autism and Angelman syndrome	\$0	Q4.S.B	University of North Carolina at Chapel Hill

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Preclinical testing of novel oxytocin receptor activators in models of autism phenotypes	\$167,572	Q4.S.B	University of North Carolina at Chapel Hill
Preclinical testing of novel oxytocin receptor activators in models of autism phenotypes	\$39,325	Q4.S.B	University of North Carolina at Chapel Hill
Preclinical testing of novel oxytocin receptor activators in models of autism phenotypes	\$346,289	Q4.S.B	University of North Carolina at Chapel Hill
Development of a high-content neuronal assay to screen therapeutics for the treatment of cognitive dysfunction in autism spectrum disorders	\$0	Q4.S.B	Massachusetts Institute of Technology
Interaction between MEF2 and MECP2 in the pathogenesis of autism spectrum disorders - 1	\$0	Q4.S.B	Burnham Institute
Interaction between MEF2 and MECP2 in the pathogenesis of autism spectrum disorders -2	\$0	Q4.S.B	Burnham Institute
A mouse knock-in model for ENGRAILED 2 autism susceptibility	\$227,135	Q4.S.B	University of Medicine & Dentistry of New Jersey
Animal model of speech sound processing in autism	\$325,125	Q4.S.B	University of Texas at Dallas
Animal models of neuropsychiatric disorders	\$1,769,941	Q4.S.B	National Institutes of Health
Autism iPSCs for studying function and dysfunction in human neural development	\$254,152	Q4.S.B	The Scripps Research Institute
Role of L-type calcium channels in hippocampal neuronal network activity	\$32,741	Q4.S.B	Stanford University
Neurobiology of mouse models for human chr 16p11.2 microdeletion and fragile X	\$210,000	Q4.S.B	Massachusetts Institute of Technology
Micro-RNA regulation in pluripotent stem cells	\$19,189	Q4.S.B	Southwest Foundation For Biomedical Research
Murine genetic models of autism	\$172,389	Q4.S.B	Vanderbilt University
Neurobiology of sociability in a mouse model system relevant to autism	\$354,375	Q4.S.B	University of Pennsylvania
Basal ganglia circuitry and molecules in pathogenesis of motor stereotypy	\$387,767	Q4.S.B	University of California, Los Angeles
Cellular and genetic correlates of increased head size in autism spectrum disorder	\$282,901	Q4.S.B	Yale University
Central vasopressin receptors and affiliation	\$32,896	Q4.S.B	Emory University
Genetic models of serotonin transporter regulation linked to mental disorders	\$184,375	Q4.S.B	Medical University of South Carolina
High content screens of neuronal development for autism research	\$210,977	Q4.S.B	University of California, San Diego
High-resolution diffusion tensor imaging in mouse models relevant to autism	\$199,724	Q4.S.B	University of Pennsylvania
Transgenic mouse model to address heterogeneity in autism spectrum disorders	\$468,586	Q4.S.B	Vanderbilt University

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Using induced pluripotent stem cells to identify cellular phenotypes of autism	\$800,000	Q4.S.B	Stanford University
Central vasopressin receptors and affiliation	\$364,425	Q4.S.B	Emory University
Neurologin function in vivo: Implications for autism and mental retardation	\$392,500	Q4.S.B	University of Texas Southwestern Medical Center
Novel genetic animal models of autism	\$274,750	Q4.S.B	University of Texas Southwestern Medical Center
Optimization of methods for production of both ICSI- and SCNT derived baboon embryonic stem cells	\$260,102	Q4.S.B	Southwest Foundation For Biomedical Research
Characterization of a novel mouse model of restricted repetitive behaviors	\$222,000	Q4.S.B	University of North Carolina at Chapel Hill
Serotonin, autism, and investigating cell types for CNS disorders	\$90,000	Q4.S.B	The Rockefeller University
Identification of autism genes that regulate synaptic Nrx/Nlg signaling complexes	\$200,000	Q4.S.B	Stanford University
Insight into MeCP2 function raises therapeutic possibilities for Rett syndrome	\$295,298	Q4.S.B	University of California, San Francisco
Methods for production of ICSI and SCNT derived macaque stem cells	\$19,188	Q4.S.B	Southwest Foundation For Biomedical Research
Neurogenetic model of social behavior heterogeneity in autism spectrum disorders	\$795,188	Q4.S.B	Duke University
Characterization of autism susceptibility genes on chromosome 15q11-13	\$47,606	Q4.S.B	Beth Israel Deaconess Medical Center
Neurogenomics in a model for procedural learning	\$33,053	Q4.S.B	University of California, Los Angeles
Serotonin, corpus callosum, and autism	\$303,250	Q4.S.B	University of Mississippi Medical Center
Characterization of the transcriptome in an emerging model for social behavior	\$426,250	Q4.S.B	Emory University
Cntnap2 in a behavioral model of autism	\$262,356	Q4.S.B	University of California, Los Angeles
Synaptic deficits of iPS cell-derived neurons from patients with autism	\$86,588	Q4.S.B	Stanford University
Synaptic plasticity, memory and social behavior	\$52,154	Q4.S.B	New York University
Neural mechanisms of social cognition and bonding	\$43,862	Q4.S.B	Emory University
Neurobiological mechanism of 15q11-13 duplication autism spectrum disorder	\$304,500	Q4.S.B	Beth Israel Deaconess Medical Center
The genetic control of social behavior in the mouse	\$346,000	Q4.S.B	University of Hawai'i at Manoa
Patient iPS cells with copy number variations to model neuropsychiatric disorders	\$207,388	Q4.S.B	The Hospital for Sick Children
Regulation of gene expression in the brain	\$2,086,763	Q4.S.B	National Institutes of Health
Dissecting the neural control of social attachment	\$772,500	Q4.S.B	University of California, San Francisco
Dynamic regulation of Shank3 and ASD	\$300,000	Q4.S.B	Johns Hopkins University

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Exploring the neuronal phenotype of autism spectrum disorders using induced pluripotent stem cells	\$241,503	Q4.S.B	Stanford University
Vasopressin receptors and social attachment	\$121,500	Q4.S.B	Emory University
Role of UBE3A in neocortical plasticity and function	\$490,000	Q4.S.B	Duke University
Small-molecule compounds for treating autism spectrum disorders	\$175,000	Q4.S.B	The University of North Carolina at Chapel Hill
Synaptic and circuitry mechanisms of repetitive behaviors in autism	\$400,000	Q4.S.B	Massachusetts Institute of Technology
Investigation of the role of MET kinase in autism	\$366,308	Q4.S.B	Johns Hopkins University School of Medicine
Mice lacking Shank postsynaptic scaffolds as an animal model of autism	\$128,445	Q4.S.B	Massachusetts Institute of Technology
Neural and cognitive mechanisms of autism	\$375,000	Q4.S.B	Massachusetts Institute of Technology
Control of synaptic protein synthesis in the pathogenesis and therapy of autism	\$155,063	Q4.S.B	Massachusetts General Hospital
Dissecting the circuitry basis of autistic-like behaviors in mice	\$175,000	Q4.S.B	Massachusetts Institute of Technology
Novel models to define the genetic basis of autism	\$289,633	Q4.S.B	Cold Spring Harbor Laboratory
Role of a novel Wnt pathway in autism spectrum disorders	\$750,000	Q4.S.B	University of California, San Francisco
Using Drosophila to model the synaptic function of the autism-linked NHE9	\$150,000	Q4.S.B	Massachusetts Institute of Technology
Using iPS cells to study genetically defined forms with autism	\$200,000	Q4.S.B	Stanford University
Systematic analysis of neural circuitry in mouse models of autism	\$149,973	Q4.S.B	Cold Spring Harbor Laboratory
The role of SHANK3 in autism spectrum disorders	\$360,000	Q4.S.B	Mount Sinai School of Medicine
16p11.2: defining the gene(s) responsible	\$175,000	Q4.S.B	Cold Spring Harbor Laboratory
Behavioral and physiological consequences of disrupted Met signaling	\$800,000	Q4.S.B	University of Southern California
Using zebrafish and chemical screening to define function of autism genes	\$399,999	Q4.S.B	Whitehead Institute for Biomedical Research
Investigating the effects of chromosome 22q11.2 deletions	\$150,000	Q4.S.B	Columbia University
Function and dysfunction of neuroligins	\$374,383	Q4.S.B	Stanford University
Functional genomic dissection of language-related disorders	\$235,753	Q4.S.B	University of Oxford
Genomic imbalances at the 22q11 locus and predisposition to autism	\$400,000	Q4.S.B	Columbia University
Integrated approach to the neurobiology of autism spectrum disorders	\$232,118	Q4.S.B	Yale University

